(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 23 October 2003 (23.10.2003)

PCT

(10) International Publication Number WO 03/086598 A1

(51) International Patent Classification7: 7/22, 7/32

(21) International Application Number:

Beaven [NZ/NZ]; 8 Radiata Street, Hamilton (NZ). RITCHIE, Thomas, Stuart [NZ/NZ]; 217 Grandview

ing, 329 Durham Street, P.O Box 2201, Christchurch (NZ).

- - (74) Agents: LEWIS, Mardi, L. et al.; Level 3, Spicers Build-

15 April 2003 (15.04.2003)

PCT/NZ03/00066

(25) Filing Language:

English

B01F 7/16,

(26) Publication Language:

(22) International Filing Date:

English

(30) Priority Data: 518432

16 April 2002 (16.04.2000)

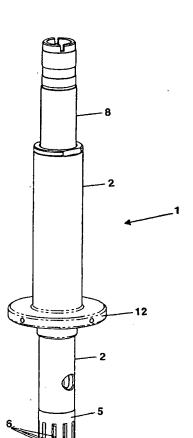
- (71) Applicant (for all designated States except US): AGRE-SEARCH LIMITED [NZ/NZ]; East Street, Ruakura Campus, Hamilton (NZ).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HARRIS, Mark,

Road, Hamilton (NZ).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD. SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: A HOMOGENISER



(57) Abstract: A homogeniser (1) including: a housing; a drive mechanism (3) located within said housing (2); and a cutting element (4) attached to said drive mechanism (3), characterised in that at least part of said drive mechanism (3) is reversibly movable within said housing (2) between a position in which said cutting element (4) is located within said housing (2) and a position in which the cutting element (4) at least partially projects outside said housing (2) and thereby cleaning of same.

WO 03/086598 A1

WO 03/086598 A1



SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ03/00066

CLASSIFICATION OF SUBJECT MATTER Int. Cl. 7; B01F 7/16, 7/22, 7/32 According to International Patent Classification (IPC) or to both national classification and IPC В. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC (7): B01F 7/16, 7/22, 7/32 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 6523990 B1 (LEE), 25 February 2003 Whole document Α 1-18. US 6398403 B1 (REBORDOSA et al.), 4 June 2002 Whole document 1-18 US 6293691 B1 (REBORDOSA et al.), 25 September 2001 Whole document Α 1-18 X See patent family annex Further documents are listed in the continuation of Box C X Special categories of cited documents: "A" document defining the general state of the art "T" later document published after the international filing date or priority date which is not considered to be of particular and not in conflict with the application but cited to understand the principle relevance or theory underlying the invention "E" earlier application or patent but published on or document of particular relevance; the claimed invention cannot be after the international filing date considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority document of particular relevance; the claimed invention cannot be claim(s) or which is cited to establish the considered to involve an inventive step when the document is combined publication date of another citation or other special with one or more other such documents, such combination being obvious to reason (as specified) a person skilled in the art document referring to an oral disclosure, use, document member of the same patent family exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 2 5 JUL 2003 8 July 2003 Name and mailing address of the ISA/AU Authorized officer AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA ADRIAN GILLMORE E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 Telephone No: (02) 6283 2125



Information on patent family members

iternational application No.

PCT/NZ03/00066

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the ove-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
US	6523990	NONE					
US	6398403	AU	34120/99	DE	19812541	EP	1065963
		US	2002034121	WO	9948411		
US	6293691	AU	18710/99	DE	19750813	EP	1032299
		wo	9925234				
US	6193404	AU	86342/98	BR	9806024	EP	925010
		FR	2766080	PL	332162	wo	9903388
		FR	2770121				
US	6186056	ES	2179711	FR	2780264	IT	TO
			990555				
US	5863118	AU	65747/98	EP	999776	wo	9905945
•							
							END OF ANNEX